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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/685,280	10/14/2003	Wolfgang Hirschburger	0212.66894	4919
	7590 03/24/200 NS & CRAIN, LTD.	EXAMINER		
Suite 2500		PAUL, DISLER		
300 South Wacker Drive Chicago, IL 60606			ART UNIT	PAPER NUMBER
			2615	
			MAIL DATE	DELIVERY MODE
			03/24/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/685,280	HIRSCHBURGER ET AL.				
Office Action Summary	Examiner	Art Unit				
	DISLER PAUL	2615				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on .					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)  Paper No(s)/Mail Date						
7) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 12/13,11/22,7/30,2/04/04; and 4/13/06.  5) Notice of Informal Patent Application 6) Other:						



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## **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments, in regard to the feature of "the relay coil", filed August 20, 2007, with respect to the rejection(s) of claim(s) 1 and 17 under smith ("2002/0158604 A1") and Bhagwat et al. ("4,835,409) as a whole, have been fully considered and are nonpersuasive. Bhagwat et al. does disclose of the similar feature as claimed: "a relay coil between cord and unit system, and electrically isolate the system from battery when AC power is applied to (fig.4; col.5 line 30-60/ relay to isolate battery from unit system when power is applied with *the contact switch being at NO*) as claimed.

2. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-2,5-6,12-14,16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Smith ("2002/0158604") and Bhagwat et al. (US 4,835,409).

Re claim 1, Smith disclose an apparatus (" $\underline{fig.1-6}$ ") comprising: a housing having a number of walls, a top and a bottom (" $\underline{fig.1-2/}$  housing with varying walls include top and bottom"); a charger located in said housing for charging a removable battery pack of the type which is used to power rechargeable hand tools and other tools (" $\underline{fig.5/(43,60)}$ ; page 2[0036] line 4-7"); a receptacle operably connected to said charger and being capable of receiving a removable

battery pack to be charged by said charger (" $\underline{fig.6}$ "); an audio unit for producing an audio signal located in said housing (" $\underline{fig.5/(44)}$ ;  $\underline{fig.1/in\ here\ the\ housing\ comprising\ (charger\ and\ radio)}$ ") a cord and plug for connecting said apparatus to a source of AC power and a first circuit for connecting said cord to said charger and said audio unit, whereby AC power is applied to said audio unit to power the same and AC power is also applied to said charger (" $\underline{fig.5(40-41)}$ ;  $\underline{page\ 2[0030]}$   $\underline{and\ more\ specifically\ circuit\ (40)}$ "); a relay connected in circuit between a battery pack located in said receptacle and said audio unit; a relay connected in circuit between said cord and said audio unit (" $\underline{fig.5(42)}$ "),.

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However, Smith fail to disclose of the specific of relay coil connected in circuit between said cord and said audio unit, said coil monitoring the presence of AC power being applied to said audio unit and causing said relay to open circuit and electrically isolating said audio unit from said battery when AC power is applied to said audio unit and close circuit when AC power is not applied to said audio unit, thereby enabling said battery pack to power said audio unit when AC power is not applied thereto. However, Bhagwat et al. disclose of the system device wherein the similar concept of having relay coil connected in circuit between power cord and a power motor device, and said coil monitoring the presence of AC power being applied to said power motor device and causing said relay to open circuit and isolate said audio unit from said battery when AC power is applied to said

device and close circuit when AC power is not applied to said device unit, thereby enabling said battery pack to power said audio unit when AC power is not applied thereto (Fig. 4 wt (76, k1, 22, 52); col.5 line 30-60) for the purpose of high power dual mode power supply in high efficiency circuit for meeting the current demand of the compact internal battery device. Thus, taking the combined teaching of Smith and now Bhagwat et al. as a whole, it would have been obvious for one of the ordinary skill in the art at the time of the invention to have incorporated the relay coil connected in circuit between said cord and said device unit , said coil monitoring the presence of AC power being applied to said audio device unit and causing said relay to open circuit and electrically isolating said audio unit from said battery when AC power is applied to said audio unit and close circuit when AC power is not applied to said audio unit, thereby enabling said battery pack to power said audio unit when AC power is not applied thereto for the purpose of high power dual mode power supply in high efficiency circuit for meeting the current demand of the compact internal battery device.

Re claim 2, the apparatus as defined in claim 1 further including at least one AC power receptacle connected in said first circuit so that AC power can be provided to said receptacle when said cord and

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plug is connected to a source of AC power (" $\underline{fig.5} = switch \ circuit \ (40)$  with receptacle of AC Power plug (41)").

Re claim 5, the apparatus as defined in claim 1 wherein said audio unit comprises a radio ("fig.5/44").

Re claim 6, the apparatus as defined in claim 5 wherein said audio unit further comprises a CD player ("page 2[0034")).

Re claim 12, the apparatus as defined in claim 1 wherein said audio unit has operating controls (" $\underline{fig.1/(15-17)}$ ") and displays located in a front wall of said housing (" $\underline{fig.1/displays\ located\ in\ front}$ ").

Re claim 13, the apparatus as defined in claim 1 further comprising an access door located in a rear wall for accessing a chamber that includes a receptacle for receiving a battery pack for charging by said charger (" $\underline{fig.6}$ ").

Re claim 14, the apparatus as defined in claim 2 wherein said at least one AC power receptacle in located in a first side wall (" $\underline{fig.5/}$  with power on side wall").

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Re claim 16, the apparatus as defined in claim 1 wherein said top has a recess therein with a bridging portion extending across said recess and forming a handle for carrying said apparatus ("fig.1/remote location to carry or handle the apparatus").

4. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over unpatentable by Smith ("2002/0158604") and Bhagwat et al. (US 4,835,409) and further in view of Stanesti et al. ("2004/0155627 A1").

Re claim 3, the apparatus as defined in claim 1 with the first circuit, However, Smith fail to disclose of the further limitation including an AC to DC converter connected in said first circuit and at least one DC power receptacle connected to said converter. However, Stanesti et al. disclose of a selector circuit for which the further limitation including an AC to DC converter connected in said first circuit and at least one DC power receptacle connected to said converter ("fig.2; page 2[0025]") for the purpose of enabling the recharging by providing DC current to the plurality of batteries. Thus, taking the combined teaching of Smith and Stanesti et al. as a whole, it would have been obvious for one of the ordinary skill in the art to modify Smith by incorporating the circuit with the further limitation including an AC to DC converter connected in said first

circuit and at least one DC power receptacle connected to said converter for the purpose of enabling the recharging by providing DC current to the plurality of batteries as disclose by Stanesti et al.

1. Claims 7-11, 17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over unpatentable by Smith ("2002/0158604") and Bhagwat et al. (US 4,835,409) and further in view of Kellly et al. ("6,921,596").

Re claim 17, Smith disclose of An audio power unit for providing an audio output and for charging removable battery packs ("fig.1-6"), said unit comprising: a charger including a receptacle located in said housing for charging the removable battery ("fig.5/(43,60); page 2[0036] line 4-7;fig.6"); an audio unit for producing an audio signal located in said housing ("fig.5/(44); fig.1/in here the housing comprising (charger and radio)"), the cord and plug for connecting said apparatus to a source of AC power ("fig.5(40-41)") and a circuit for connecting said cord to said charger and said audio unit, whereby AC power is applied to said audio unit to power the same and AC power is also applied to said charger ("fig.5(40-41,43,44").

However, Smith fail to disclose of the circuit isolating said audio unit from said battery pack when AC power is applied to said audio unit and connecting said battery pack to power said audio unit

when AC power is not applied to said audio unit. However, Bhagwat et al. disclose of the system device wherein the similar concept of having the circuit isolating a motor device unit from said battery pack when AC power is applied to said device unit and connecting said battery pack to power said device unit when AC power is not applied to said motor unit (Fig. 4 wt (76, k1, 22, 52); col. 5 line 30-60) for the purpose of high power dual mode power supply in high efficiency circuit for meeting the current demand of the compact internal battery device.

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While, the combined teaching of Smith and Bhagwat et al. as a whole, fail to disclose of the further limitation of the housing a housing having a generally cuboid shape with front, rear, left and right and side walls, a top and a bottom. But, Kelly et al. disclose a system in which housing have a generally cuboid shape with front, rear, left and right and side walls, a top and a bottom ("fig.3") for the purpose of enabling ease of fabrication. Thus taking the combine teaching of Smith and Bhagwat now Kelly et al. as a whole, it would have been obvious for one of the ordinary skill in the art to modify smith by incorporating the housing have a generally cuboid shape with front, rear, left and right and side walls, a top and a bottom for the purpose of enabling ease of fabrication.

Re claim 18, the audio power unit as defined in claim 17 wherein said circuit further comprises: a relay connected in circuit between a battery pack located in said receptacle and said audio unit; and a relay coil connected between said cord and said audio unit, said coil monitoring the presence of AC power being applied to said audio unit and causing said relay to open circuit and isolate said audio unit from said battery pack when AC power is applied to said audio unit and close circuit when AC power is not applied to said audio unit, thereby enabling said battery pack to power said audio unit when AC power is not applied thereto ("page 2[0031]/with relay and close switch I power (40) for choosing which source need current in between charger an radio").

Re claim 7, the apparatus as defined in claim 1 with a shape ("fig.1-2"), however, Smith and Bhagwat as a whole, fail to disclose the further limitation wherein said housing has a generally cuboid shape. But, Kelly et al. disclose a system in which housing have a generally cuboid shape ("fig.3") for the purpose of enabling ease of fabrication. Thus taking the combine teaching of Smith and Bhagwat and now Kelly et al. as a whole, it would have been obvious for one of the ordinary skill in the art to modify smith by incorporating the housing have a generally cuboid shape for the purpose of enabling ease of fabrication.

Re claim 8, has also been analyzed and rejected with respect to claim 7.

2. Claims 9-11, 19-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over unpatentable by Smith ("2002/0158604") and Bhagwat et al. (US 4,835,409) and further in view of Kellly et al. ("6,921,596") and further in view of Furusho et al. (US D479,223).

Re claim 9, Smith disclose of the apparatus as defined in claim 7 further comprising a frame structure, However, the combined teaching of Smith and Bhagwat et al. and Kelly et al. as a whole, fail to disclose of the further limitation of the frame structure that is in the shape of an open faced cuboid, with each leg being connected to two other legs at right angles, said frame structure being larger than said housing and being attached thereto at multiple connection points, said frame structure providing protection for said housing. However,

Furusho et al. disclose of a system with the similar concept wherein the frame structure that is in the shape of an open faced cuboid, with each leg being connected to two other legs at right angles, said frame structure being larger than said housing and being attached thereto at multiple connection points, said frame structure providing protection for said housing (fig.1-7) for the purpose of providing a protective cage for the radio in case of accident and easy transportation. thus taking the combined teaching of Smith and Furusho et al. as a whole, it would have been obvious for one of the ordinary skill in the art to have modify Smith by incorporating the similar concept wherein the frame structure that is in the shape of an open faced cuboid, with each leg being connected to two other legs at right angles, said frame structure being larger than said housing and being attached thereto at multiple connection points, said frame structure providing protection for said housing for the purpose of providing a protective cage for the radio in case of accident and easy transportation.

Re claim 10, the apparatus as defined in claimed 9 with the cylindrical frame, However, the combined teaching of Smith and Bhagwat et al. and Kelly et al. as a whole, fail to disclose of the specific wherein the elongated frame members are connected at an eight corners. However, official notice is taken the concept of specifically having the elongated frame members are connected at an eight corners is simply the inventor's preference, thus it would have been obvious for

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one of the ordinary skill in the art, at the time of the invention to have modify the combined teaching of Smith and Bhagwat et al. and Kelly et al. as a whole, by incorporating the specific wherein the elongated frame members are connected at an eight corners for reinforcing the stability to the system.

Similarly claims 11 has been analyzed and rejected with respect to claim 10 above.

Re claims 19-21 have been analyzed and rejected with respect to claims 9-11 Respectively.

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3. Claim 4 rejected under 35 U.S.C. 103(a) as being unpatentable over unpatentable by Smith ("2002/0158604") and Bhagwat et al. (US 4,835,409) and further in view of Nee ("5,272,431").

Re claim 4, the apparatus as defined in claim 2, However Smith and Bhagwat et al. as a whole, fail to disclose of the further including a ground fault circuit interrupter connected in said first circuit between said at least one AC power receptacle and said cord. But, Nee disclose of a system in which the further including a ground fault circuit interrupter connected in said first circuit between said at least one AC power receptacle and said cord ("fig.9; col. 5 line 61-67") for the purpose of enabling the shutting of electrical supply to the outlet in case of occurring of spike current. Thus, taking the combined teaching of Smith and Bhagwat et al. and now Nee as a whole, it would have been obvious for one of the ordinary skill in the art to modify Smith by incorporating the further including a ground fault circuit interrupter connected in said first circuit between said at least one AC power receptacle and said cord for the purpose of enabling the shutting of electrical supply to the outlet in case of occurring of spike current as taught by Nee.

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4. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over unpatentable by Smith ("2002/0158604") and Bhagwat et al. (US 4,835,409) and further in view of Kirk ("2003/0169896").

Re claim 15, the apparatus as defined in claim 1, However, Smith and Bhagwat et al. as a whole, fail to disclose of the further limitation wherein said cord and plug extend from a second side wall, said apparatus further including a cord wrap structure on said second side wall. But, Kirk disclose of system in which the further limitation wherein said cord and plug extend from a second side wall, said apparatus further including a cord wrap structure on said second side wall ("fig.1") for the purpose of providing the appearance and avoid leaving the audio cord or wire dangling in a loose manner by its full length. Thus, taking the combined teaching of Smith and Bhagwat et al. and Kirk et al. as a whole, it would have been obvious for one of the ordinary skill in the art to modify smith by incorporating the further limitation wherein said cord and plug extend from a second side wall, said apparatus further including a cord wrap structure on said second side wall for the purpose of providing the appearance and avoid leaving the audio cord or wire dangling in a loose manner by its full length.

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**Conclusion** 

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Disler Paul whose telephone number is 571-272-2222. The examiner can

normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chin Vivian can be reached on 571-272-7848. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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would like assistance from a USPTO Customer Service Representative or access to the

automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DP

/Vivian Chin/

Supervisory Patent Examiner, Art Unit 2615